



**US Army Corps
Of Engineers**
Wilmington District

PUBLIC NOTICE

Issue Date: September 2, 2005
Comment Deadline: October 3, 2005
Corps Action ID #: 200420766

All interested parties are hereby advised that the Wilmington District, Corps of Engineers (Corps) has received an application for work within jurisdictional waters of the United States. Specific plans and location information are described below and shown on the attached plans. This Public Notice and all attached plans are also available on the Wilmington District Web Site at www.saw.usace.army.mil/wetlands

Applicant:

**City of Raleigh
Attn: Mr. Carl R. Dawson Jr.
Public Works Department
Post Office Box 590
City of Raleigh, NC 27602-0590**

Authority

The Corps will evaluate this application and decide whether to issue, conditionally issue, or deny the proposed work pursuant to the applicable procedures of Section 404 of the Clean Water Act.

Location

The project, known as the White Oak Lake Reconstruction/Reuse Project, is located on the west side of US Interstate 440, south of Melbourne Road, in Raleigh, Wake County, North Carolina. Coordinates (in decimal degrees) for the site are 35.7756° North, 78.7147° West. The project site contains Simmons Branch, and adjacent wetlands, in the Neuse River Basin (8-Digit Cataloging Unit 03020201).

Existing Site Conditions

White Oak Lake is approximately 6.7 acres in size and is located on Simmons Branch, a tributary to Walnut Creek. The watershed draining to the lake is approximately 340 acres and is predominately residential with a small portion of commercial area along Western Boulevard. The lake is bounded by residential subdivisions on three sides, and by Interstate 440 on the fourth side, which is located just downstream of the 14 foot high dam. The watershed is almost entirely developed, and the lake has received substantial

inputs of pollutants and sediment as a result. The western portion of the lake has silted in and now has an average water depth of only 1 to 2 feet. The spillway for the lake has also experienced significant erosion and is in poor condition.

Applicant's Stated Purpose

As stated by the applicant, the objective of the project is to rehabilitate the lake and maximize flood storage capacity while retaining recreational uses and providing downstream water quality improvements.

Project Description

The project involves the excavation of sediment from the lakebed and the reconstruction of the dam and spillway structures. The dam is proposed to be rebuilt in an area that is currently in the center of the lake. It would run parallel to the I-440 Beltline. The new location would also allow for future improvements to the interstate. The proposed dam would have 3:1 side slopes and a top elevation of 407 feet above sea level. The new normal water surface elevation would be reduced from the current elevation of 402 feet to 398.1 feet. The reduction in water surface has been proposed to allow additional stormwater storage. The new dam would have a riser barrel spillway with drawdown orifices to carry normal flows, and an overflow channel. A stilling basin and a step pool are also proposed downstream of the primary spillway to reduce water velocity, and the stream channel between the dam and interstate would be regraded to flatten the slope.

Excavation of accumulated sediments within the lakebed would result in a lake depth ranging between 4 and 8 feet. The majority of the dredging would occur in the western portion of the lake. The edges of the lake would be regraded to maximize flood storage and create a 20-foot wide shallow wetland shelf around the perimeter of the lake. A forebay is proposed to be constructed in the upper end of the lake to allow periodic removal of accumulated sediment. A step pool is also proposed to be constructed approximately 100 feet upstream of the forebay to provide a controlled drop in the elevation of the streambed, which is required to accommodate the new water surface elevation.

Impacts to waters of the U.S. associated with the reconstruction of White Oak Lake include 460 linear feet of stream channel, 6.7 acres of open water, 0.308 acre of permanent wetland impact, and 0.633 acre of temporary wetland impact. Plans included with this notice show the proposed project details.

The applicant does not propose to mitigate for impacts resulting from the project because the primary purposes of the project is to improve water quality and provide increased stormwater retention, resulting in a reduction of the 10-year 24-hour peak outflow by approximately 50%.

Other Required Authorizations

This notice and all applicable application materials are being forwarded to the appropriate State agencies for review. The Corps will generally not make a final permit decision until the North Carolina Division of Water Quality (NCDWQ) issues, denies, or waives State certification required by Section 401 of the Clean Water Act (PL 92-500). The receipt of the application and this public notice in the NCDWQ Central Office in Raleigh serves as application to the NCDWQ for certification. A waiver will be deemed to occur if the NCDWQ fails to act on this request for certification within sixty days of the date of the receipt of this notice in the NCDWQ Central Office. Additional information regarding the Clean Water Act certification may be reviewed at the NCDWQ Central Office, 401 Oversight and Express Permits Unit, 2321 Crabtree Boulevard, Raleigh, North Carolina 27604-2260. All persons desiring to make comments regarding the application for certification under Section 401 of the Clean Water Act should do so in writing delivered to the North Carolina Division of Water Quality (NCDWQ), 1650 Mail Service Center, Raleigh, North Carolina, 27699-1650 Attention: Ms Cyndi Karoly by September 26, 2005.

Essential Fish Habitat

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The Corps' initial determination is that the proposed project will not adversely impact EFH or associated fisheries managed by the South Atlantic or Mid Atlantic Fishery Management Councils or the National Marine Fisheries Service.

Cultural Resources

The Corps has consulted the latest published version of the National Register of Historic Places and is not aware that any registered properties, or properties listed as being eligible for inclusion therein are located in the project area or will be affected by the proposed work. Presently, unknown archeological, scientific, prehistoric, or historical data may be located within the project area and/or could be affected by the proposed work.

Endangered Species

The Corps has reviewed the project area, examined all information provided by the applicant and consulted the latest North Carolina Natural Heritage Database. Based on available information, the Corps has determined pursuant to the Endangered Species Act of 1973, that the proposed project will have no effect on federally listed endangered or threatened species or their formally designated critical habitat.

Evaluation

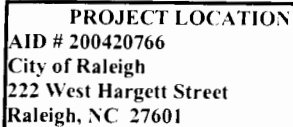
The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values (in accordance with Executive Order 11988), land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. For activities involving the discharge of dredged or fill materials in waters of the United States, the evaluation of the impact of the activity on the public interest will include application of the Environmental Protection Agency's 404(b)(1) guidelines.

Commenting Information

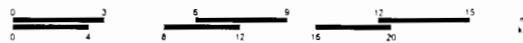
The Corps is soliciting comments from the public; Federal, State and local agencies and officials, including any consolidated State Viewpoint or written position of the Governor; Indian Tribes and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment (EA) and/or an Environmental Impact Statement (EIS) pursuant to the National Environmental Policy Act (NEPA). Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing. Requests for a public hearing shall be granted, unless the District Engineer determines that the issues raised are insubstantial or there is otherwise no valid interest to be served by a hearing.

Written comments pertinent to the proposed work, as outlined above, will be received by the Corps of Engineers, Wilmington District, until 5pm, October 3, 2005. Comments should be submitted to Todd Tugwell, Raleigh Regulatory Field Office, 6508 Falls of Neuse Road, Suite 120, Raleigh, NC 27615.

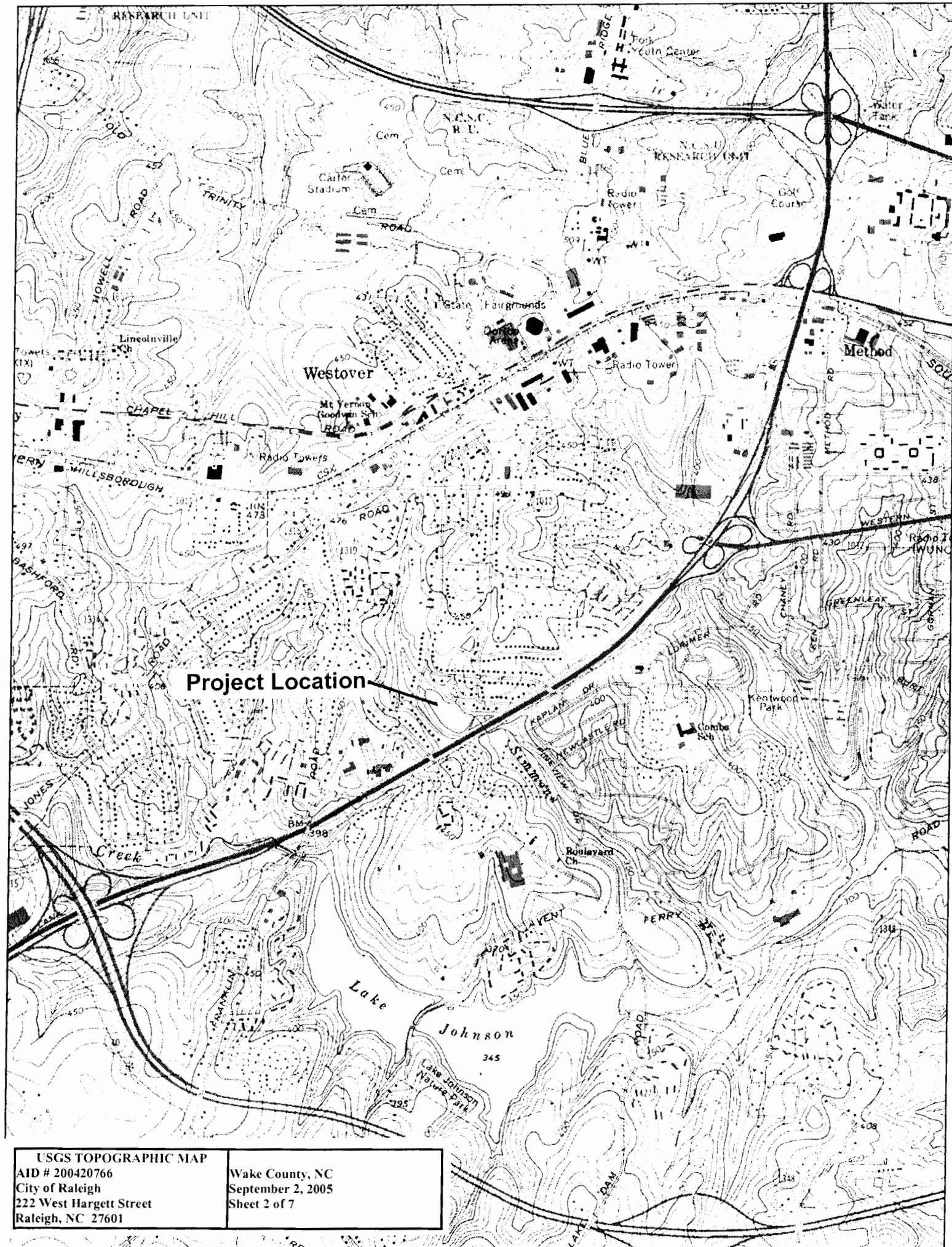


Scale 1 : 400,000
1" = 6 mi



 **DELORME**
© 2001 DeLorme. Map Print Pack
Zoom Level: 9-0 Datum: WGS84

MIN
8.5°W



USGS TOPOGRAPHIC MAP AID # 200420766 City of Raleigh 222 West Hargett Street Raleigh, NC 27601	Wake County, NC September 2, 2005 Sheet 2 of 7
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Site Plan
City of Raleigh
White Oak Lake Reconstruction/Reuse

1 inch = 150 feet

Legend

Stormwater Conveyance



MELBOURNE RD

POWELL

HAWKS BURY LA

Existing water surface boundary

Flow

Drop normal water elevation
4' to 398' contour

60" RCP

Stream 2:
Channel Stabilization

1440 BELTLINE HWY

1440 BELTLINE HWY

Existing dam

Realign dam parallel to I-440
Raise dam crest to Elevation 407

Stream 1: Step pools
Realign stream into forebay

Forebay

Existing wetland
boundary

RAVENWOOD DR

20' wide littoral shelf (0-2' water depth)

ATHENS DR

PLAN VIEW

AID # 200420766
 City of Raleigh
 222 West Hargett Street
 Raleigh, NC 27601

Wake County, NC
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Legend

Adjacent Property Boundary

Major Contours

Minor Contours

Building Footprint

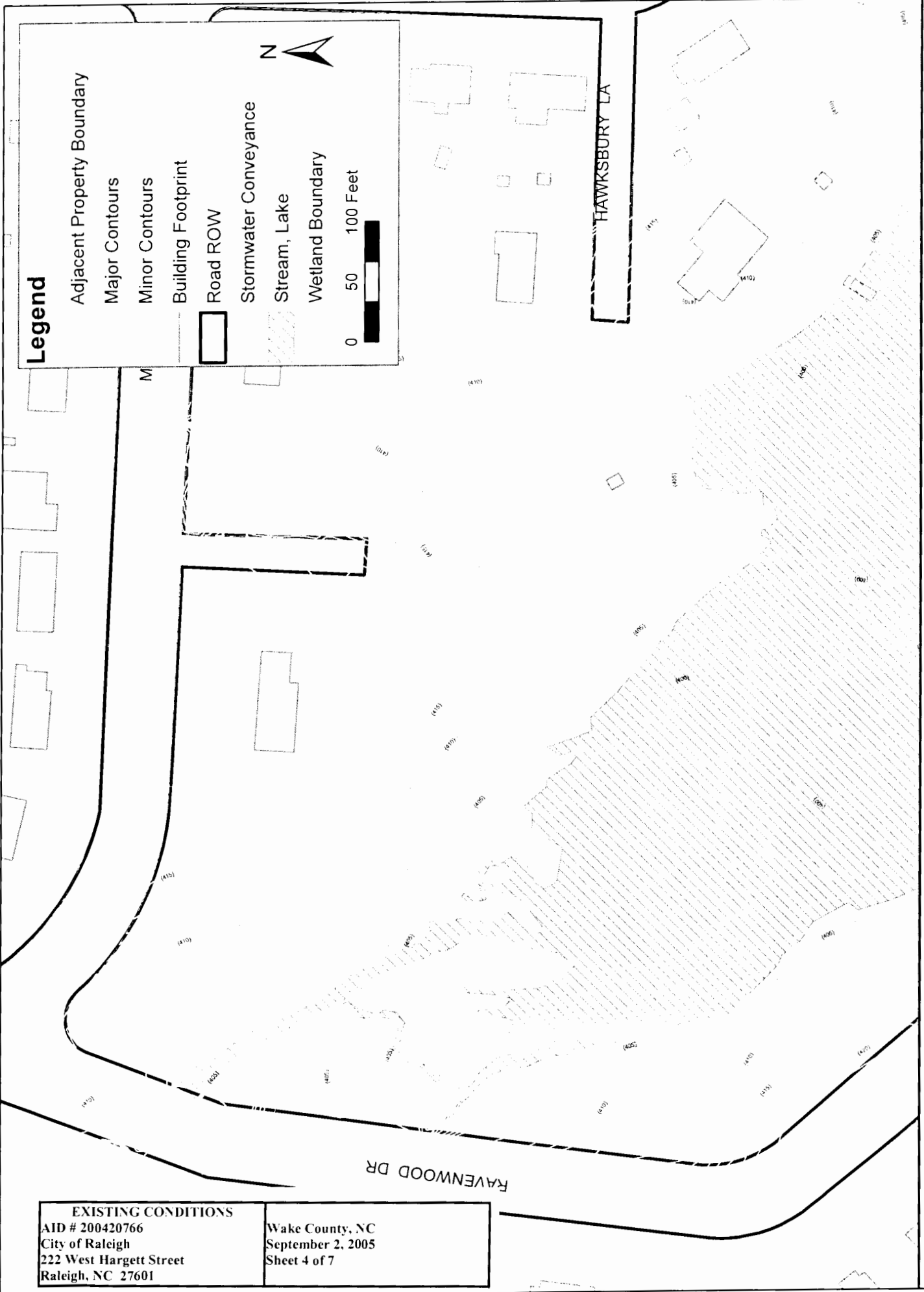
Road ROW

Stormwater Conveyance

Stream, Lake

Wetland Boundary

0 50 100 Feet



EXISTING CONDITIONS

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222 West Hargett Street
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Legend

Adjacent Property Boundary

Major Contours

Minor Contours

Building Footprint

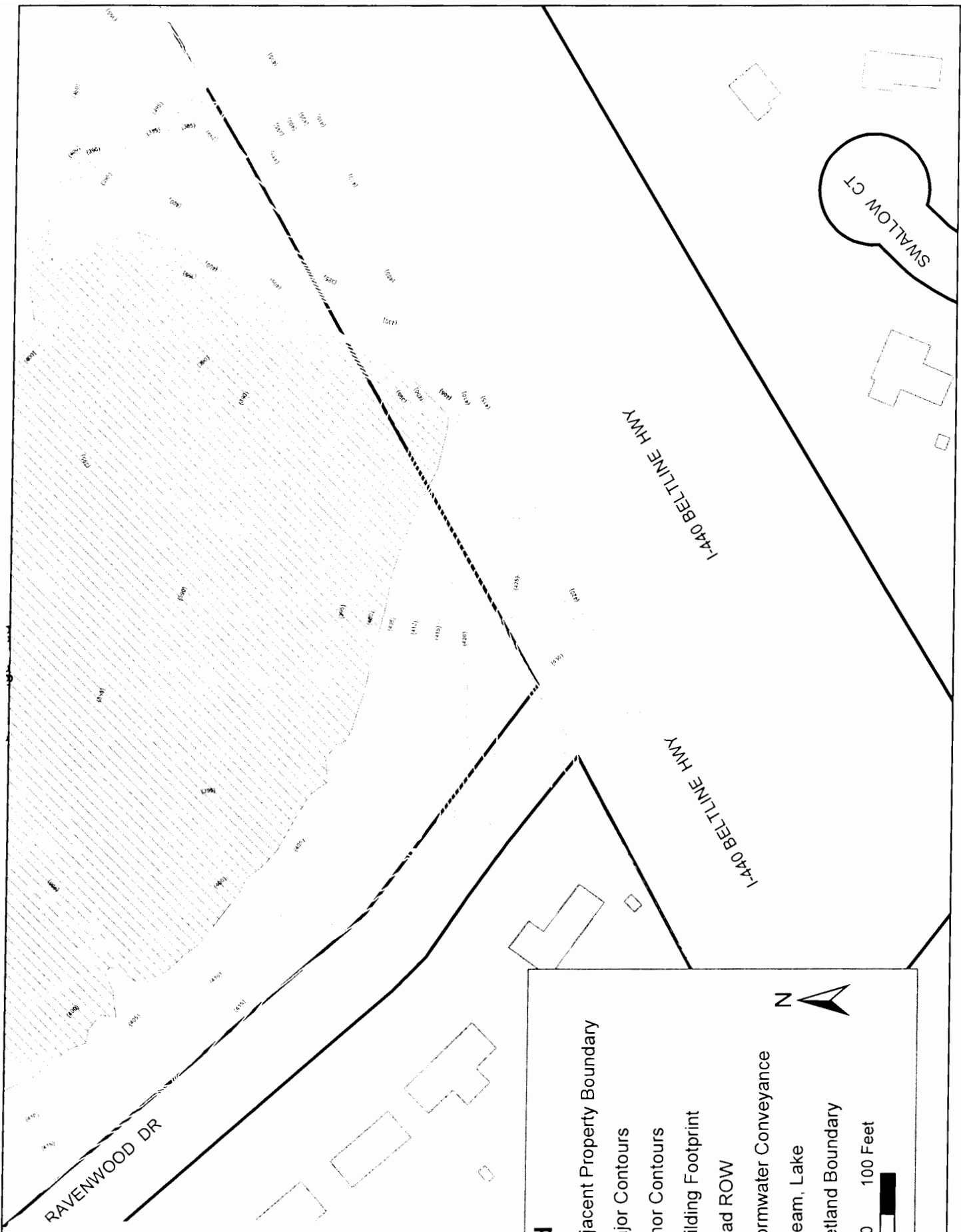
Road ROW

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Stream, Lake

Wetland Boundary

0 50 100 Feet



Legend

- Adjacent Property Boundary
- Major Contours
- Minor Contours
- Building Footprint
- Road ROW
- Stormwater Conveyance
- Wetland Boundary
- Forebay
- Normal Pool
- Proposed Dam
- Proposed Stream
- Step Pools
- Littoral Shelf

Wetland/Stream Impacts

- Zone 1 Buffers
- Zone 2 Buffers
- Streams
- Wetlands



0 50 100 Feet

RAVENWOOD DR

HAWKSURRY LA

White Oak Lake

PROPOSED CONDITIONS
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 Raleigh, NC 27601

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